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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,847	04/12/2004	Yoshiyuki Kaneko	503.39918VX1	2909
20457 ANTONELLI	7590 08/08/2007 TERRY, STOUT & KRA	EXAMINER		
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SUITE 1800 ARLINGTON	VA 22209-3873	·	ART UNIT	PAPER NUMBER
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			08/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/821,847	KANEKO ET AL.				
		Examiner	Art Unit				
		DUC Q. DINH	2629				
	The MAILING DATE of this communication app	pears on the cover sheet	with the correspondence ad	ldress			
Period for Reply							
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DEPOSIONS OF STATUTORY PERIOD FOR REPLICATION OF THE MAILING DEPOSIONS OF STATES OF THE MAILING DEPOSION OF THE MAILING DEPOSION OF THE PROPERTY OF THE MAILING DEPOSION OF THE MAILING DEPOSI	ATE OF THIS COMMUN 36(a). In no event, however, may will apply and will expire SIX (6) M e, cause the application to become	NICATION. The a reply be timely filed ONTHS from the mailing date of this contains and the mailing date of the contains and the contains are also as a second contains and the contains are also as a second contains and the contains are also as a second contains and the contains are also as a second contains and the contains are also as a second contains and the contains are also as a second contains are also as a second contains and the contains are also as a second contains and the contains are also as a second contains are also as a second contains and the contains are also as a second contains and the contains are also as a second contains are also as a second contains and the contains are also as a second contains a second contains are also as a second contains are also a				
Status							
1)⊠	Responsive to communication(s) filed on 27 A	pril 2007.	· · ·				
2a) <u></u>	This action is FINAL . 2b)⊠ This	s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims						
4)⊠	Claim(s) 1-17 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-17</u> is/are rejected.						
•	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers						
9)[]	The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
, <u></u>	ce of References Cited (P10-692) ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/12/04;9/7/05. 5) Notice of Informal Patent Application 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7 rejected under 35 U.S.C. 102(e) as being anticipated by Mizutani et al. (U.S Patent No. 6,392,620), hereinafter Mizutani.

In reference to claim 1, Mizutani discloses a picture image display device (Fig. 1) comprising pixels which are formed in a matrix shape (Fig. 2) defined by a plurality of gate lines and a plurality of data lines crossing thereto and each including an electro optical element (liquid crystal of the display is an optical element) and a switching element (TFT 5), wherein the pixels are driven while introducing a light quenching period (i.e. F12 Fig. 3B) in which the electro optical element is caused to be quenched after the plurality of gate lines being scanned for displaying one picture image (Figs 3; col. 3, lines 50 67; col. 4, lines 1-7).

In reference to claim 2, Mizutani discloses an active matrix type picture image display device comprising pixels which are formed in a matrix shape defined by a plurality of gate lines and a plurality of data lines crossing thereto and each including an electro optical element and a switching element, wherein the pixels are driven while introducing a light quenching period, in which the electro optical elements are caused to be quenched, in one frame period for displaying one picture image. (see the rejection of Claim 1)

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In reference to claim 3, Mizutani picture image display device comprising pixels which are formed in a matrix shape defined by a plurality of gate lines to which scanning signals are fed and a plurality of data lines crossing thereto to which picture image signals are fed and each including an electro optical element and a thin film transistor, wherein the pixels are driven while introducing a light quenching period, in which the electro optical element is caused to be quenched, by feeding scanning signals to the plurality of gate line as well as picture image signals to the plurality of data lines after feeding scanning signals to the plurality of gate lines for displaying one picture image. (See rejection as applied to claim 1)

In reference to claim 4, Mizutani discloses a picture image display device for displaying motion picture images comprising pixels which are formed in a matrix shape defined by a plurality of gate lines to which scanning signals are fed and a plurality of data lines crossing thereto to which picture image signals are fed and each including an electro optical element and a thin film transistor,, wherein the pixels are driven while introducing a light quenching period, in which the electro optical elements are caused to be quenched, by feeding scanning signals to the plurality of gate lines as well as feeding picture image signals for quenching the electro optical elements to the plurality of data lines in synchronism with the scanning signal after feeding the scanning signals to the plurality of gate lines and causing the electro optical element light emission for displaying one picture image, thereby a blurred edge of a motion picture image is prevented. (see the rejection of claim 1; in addition Mizutani discloses the invention is to reduce an afterimage phenomenon for displaying moving image, i.e. blurred edge of a motion picture is prevented; col. 1, lines 32-40).

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In reference to claim 5, Mizutani discloses picture image display device comprising pixels which are formed in a matrix shape defined by a plurality of gate lines to which scanning signals are fed and a plurality of data lines crossing thereto to which picture image signals are fed and each including an electro optical element and a thin film transistor, wherein the pixels are driven while introducing a light quenching period, in which the electro optical elements are caused to be quenched, in one frame period for displaying one picture image, and in the light quenching period scanning signals are fed to the plurality of gate lines as well as picture image signals for quenching the electro optical elements are fed to the plurality of data lines in synchronism with the scanning signals (see rejection of claim 1; col. 4, lines 7-17).

In reference to claim 6, Mizutani discloses a picture image display device comprising pixels which are formed in a matrix shape defined by a plurality of gate lines to which scanning signals are fed and a plurality of data lines crossing thereto to which picture image signals are fed and each including an electro optical element and a thin film transistor, and further comprising a display control controller which introduces a light quenching period, in which the electro optical elements are caused to be quenched in one frame period for displaying one picture image, and feeds scanning signals to the plurality of gate lines as well as picture image signals for quenching the electro optical elements to the plurality of data lines in synchronism with the scanning signals in the light quenching period. (see rejection of claim 1; col. 4, lines 7-17).

In reference to claim 7, Mizutani discloses a picture image display device for displaying motion picture images comprising pixels which are formed in a matrix shape defined by a plurality of gate lines to which scanning signals are fed and a plurality of data lines crossing thereto to which picture image signals are fed and each including an electro optical element and a

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thin film transistor, wherein the pixels are driven in such a manner that while introducing a light quenching period, in which the electro optical elements are caused to be quenched, between one frame period for displaying one picture image and another frame period for displaying subsequent one picture image, and scanning signals are fed to the plurality of gate lines as well as picture image signals for quenching the electro optical elements are fed to the plurality of data lines in synchronism with the scanning signals in the light quenching period (see rejection of claim 6).

In reference to claim 8, Mizutani discloses a picture image display device according to claim 3, wherein each pixel includes a first thin film transistor to which the scanning signals are fed via the gate line, a capacitor which holds the picture image signals fed from the data line via the first thin film transistor, a second thin film transistor to which the picture image signals held in the capacitor are fed and an electro optical element which is caused light emission by a drive current flowing between a pixel electrode and an opposing electrode of the electro optical element when the pixel electrode is electrically connected to a common potential line via the second thin film transistor. (see rejection of claim 6)

In reference to claim 9, Mizutani discloses a picture image display device according to claim 4, wherein each pixel includes a first thin film transistor to which the scanning signals are fed via the gate line, a capacitor which holds the picture image signals fed from the data line via the first thin film transistor, a second thin film transistor to which the picture image signals held in the capacitor are fed and an electro optical element which is caused light emission by a drive current flowing between a pixel electrode and an opposing electrode of the electro optical

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element when the pixel electrode is electrically connected to a common potential line via the second thin film transistor. (see rejection of claim 8)

In reference to claim 10, Mizutani discloses wherein each pixel includes a first thin film transistor (5 of Fig. 2) to which the scanning signals are fed via the gate line, a capacitor (7 of Fig. 2) which holds the picture image signals fed from the data line via the first thin film transistor, a second thin film transistor (6) to which the picture image signals held in the capacitor are fed and an electro optical element which is caused light emission by a drive current flowing between a pixel electrode (1b) and an opposing electrode (1a of Fig. 2) of the electro optical element when the pixel electrode is electrically connected to a common potential line via the second thin film transistor (6 of Fig. 2) [see Fig. 2].

In reference to claim 11, Mizutani disclsoes a picture image display device according to claim 6, wherein each pixel includes a first thin film transistor to which the scanning signals are fed via the gate line, a capacitor which holds the picture image signals fed from the data line via the first thin film transistor, a second thin film transistor to which the picture image signals held in the capacitor are fed and an electro optical element which is caused light emission by a drive current flowing between a pixel electrode and an opposing electrode of the electro optical element when the pixel electrode is electrically connected to a common potential line via the second thin film transistor. (see rejection of claim 10)

In reference to claim 12, Mizutani discloses a picture image display device according to claim 7, wherein each pixel includes a first thin film transistor to which the scanning signals are fed via the gate line, a capacitor which holds the picture image signals fed from the data line via the first thin film transistor, a second thin film transistor to which the picture image signals held

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in the capacitor are fed and an electro optical element which is caused light emission by a drive current flowing between a pixel electrode and an opposing electrode of the electro optical element when the pixel electrode is electrically connected to a common potential line via the second thin film transistor. (see rejection of claim 10)

In reference to claim 13, Mizutani discloses wherein the gate lines, the data lines, the first thin film transistors, the second thin film transistors, the capacitors and the electro optical elements are mounted on a common substrate (substrate 3b in Fig. 1; col. 3, lines 5-13).

In reference to claim 14, Mizutani discloses wherein the gate lines, the data lines, the first thin film transistors, the second thin film transistors, the capacitors and the electro optical elements are mounted on a common substrate. (substrate 3b in Fig. 1; col. 3, lines 5-13)

In reference to claim 15, Mizutani discloses wherein the gate lines, the data lines, the first thin film transistors, the second thin film transistors, the capacitors and the electro optical elements are mounted on a common substrate. 16. A picture image display device according to claim 11, wherein the gate lines, the data lines, the first thin film transistors, the second thin film transistors, the capacitors and the electro optical elements are mounted on a common substrate (substrate 3b in Fig. 1; col. 3, lines 5-13).

In reference to claim 17, Mizutani discloses wherein the gate lines, the data lines, the first thin film transistors, the second thin film transistors, the capacitors and the electro optical elements are mounted on a common substrate. (substrate 3b in Fig. 1; col. 3, lines 5-13)

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Response to Arguments

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3. Applicant's arguments regarding the Restriction/Election Requirement with respect to claim 1-17 have been considered and persuasive. The Restriction/Requirement hereby withdrawn.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUC Q. DINH whose telephone number is (571) 272-7686. The examiner can normally be reached on Mon-Fri from 8:00.AM-4:00.PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD HJERPE can be reached on (571)272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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